



Thank you for purchasing a Motorola T7000-Series radio. Your radio is a product of Motorola's 70 years of experience as a world leader in the designing and manufacturing of communications equipment. This revised industrial design reflects the heritage and ruggedness of the Talkabout Series line. With proper care and use, your Motorola radio should give you years of reliable communication.

Motorola two-way radios are the perfect communications solution for all of today's fast-paced industries.

**Note:** Please read this manual carefully to ensure you know how to properly operate the radio before use.

## **Product Specifications**

UHF (MHz) 462.5625-467.7250 Frequency

22 T7100 Channels 30 T7200

Codes 38 X CTCSS

**Channel Spacing** 12.5/25kHz Consumer selectable

1 NiMH Battery

Power Source 4 AA Alkaline or off the shelf nickel

rechargeable batteries











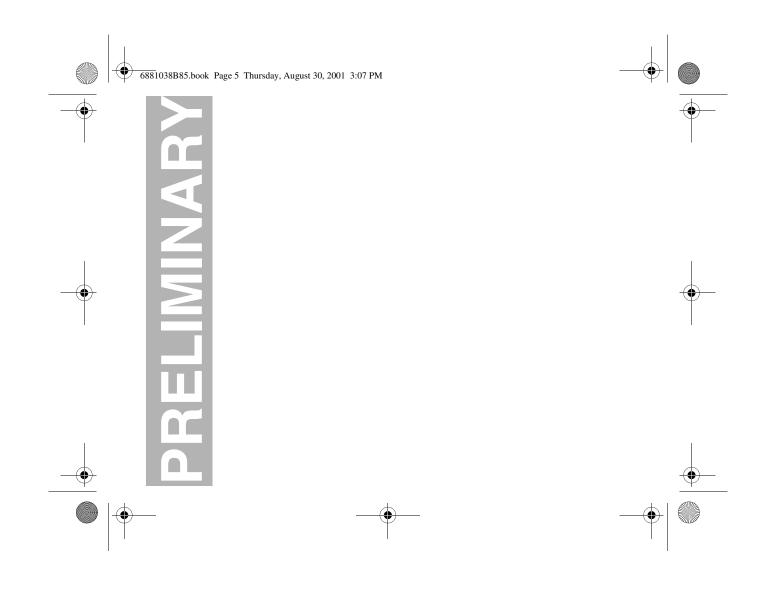


















# Important Information on Safe and Efficient Operation Read This Information Before Using Your Radio

The information provided in this document supersedes the general safety information contained in user guides published prior to July 2000. For information regarding radio use in a hazardous atmosphere please refer to the Factory Mutual (FM) Approval Manual Supplement or Instruction Card, which is included with radio models that offer this capability.

#### **RF Operational Characteristics**

Your radio contains a transmitter and a receiver. When it is ON, it receives and transmits radio frequency (RF) energy. The radio operates in the frequency range of 461 MHz to 497 MHz. The output power level typically may vary over a range from 0.5 watts to 1.0 watt.

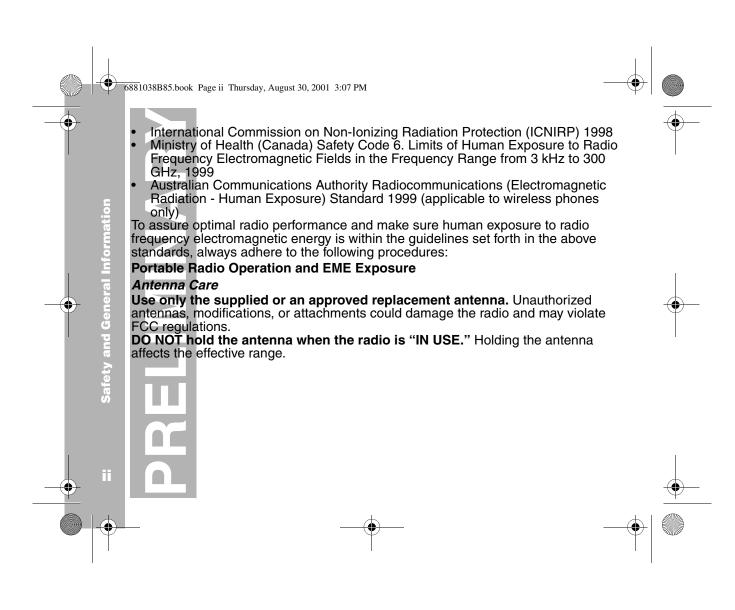
#### **Exposure to Radio Frequency Energy**

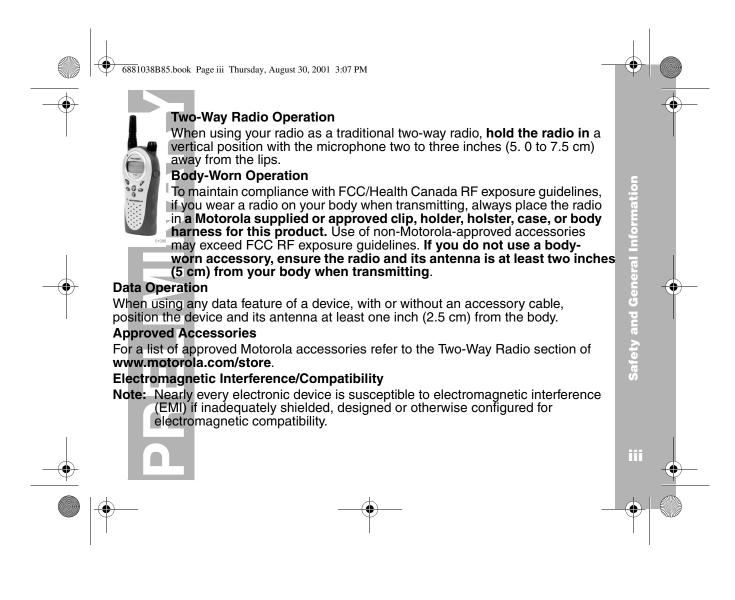
Your Motorola radio is designed to comply with the following national and international standards and guidelines regarding exposure of human beings to radio frequency electromagnetic energy:

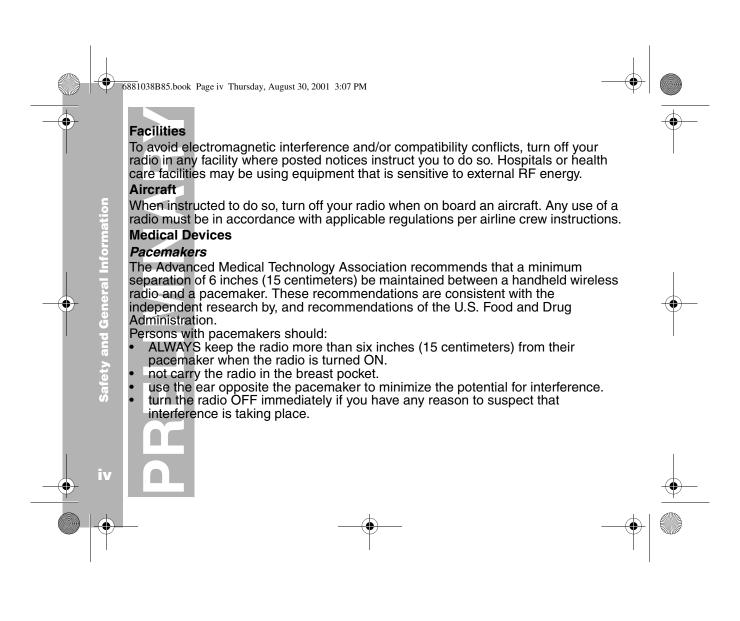
- United States Federal Communications Commission, Code of Federal Regulations; 47 CFR part 2 sub-part J
- American National Standards Institute (ANSI) / Institute of Electrical and Electronic Engineers (IEEE) C95. 1-1992
- Institute of Electrical and Electronic Engineers (IEEE) C95.1-1999 Edition
- National Council on Radiation Protection and Measurements (NCRP) of the United States, Report 86, 1986

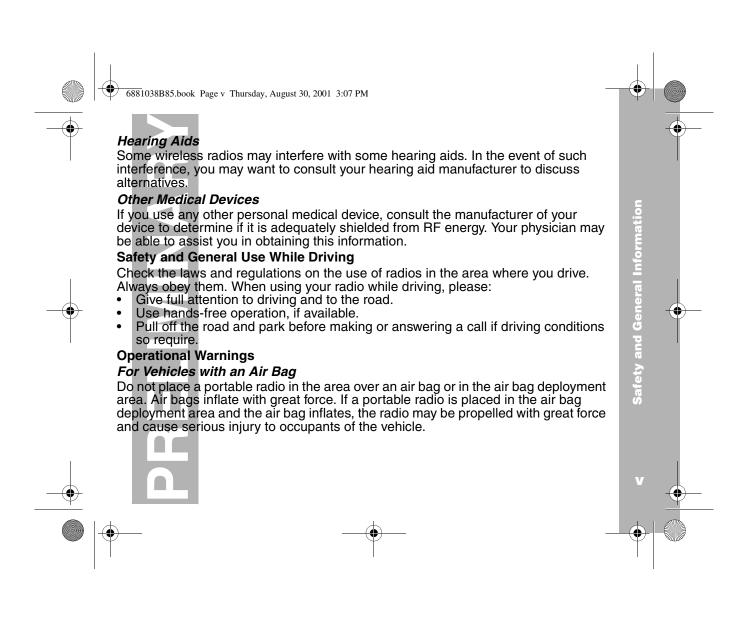


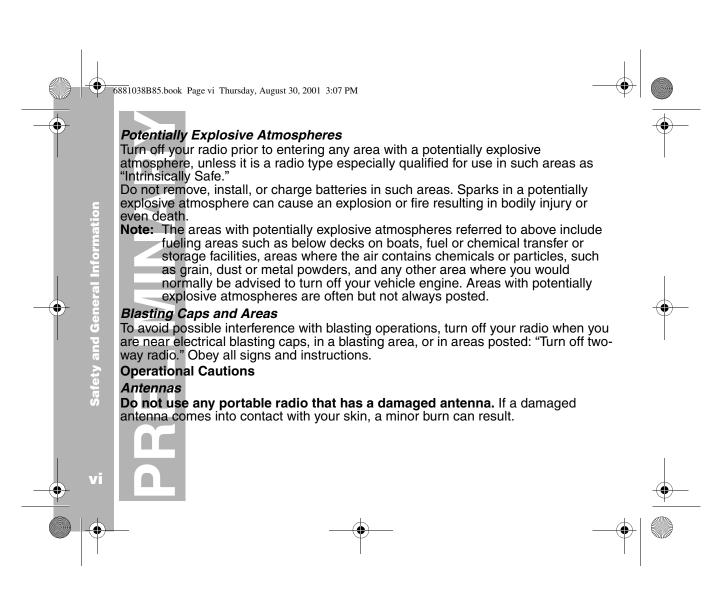


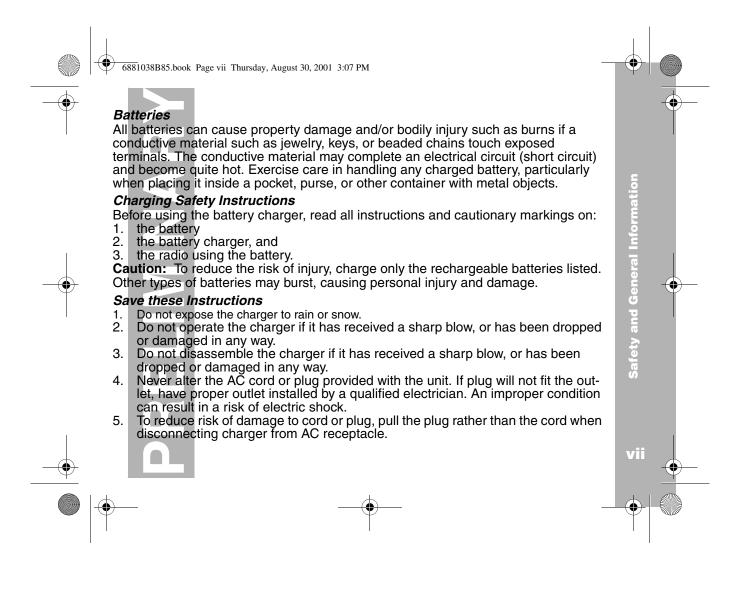


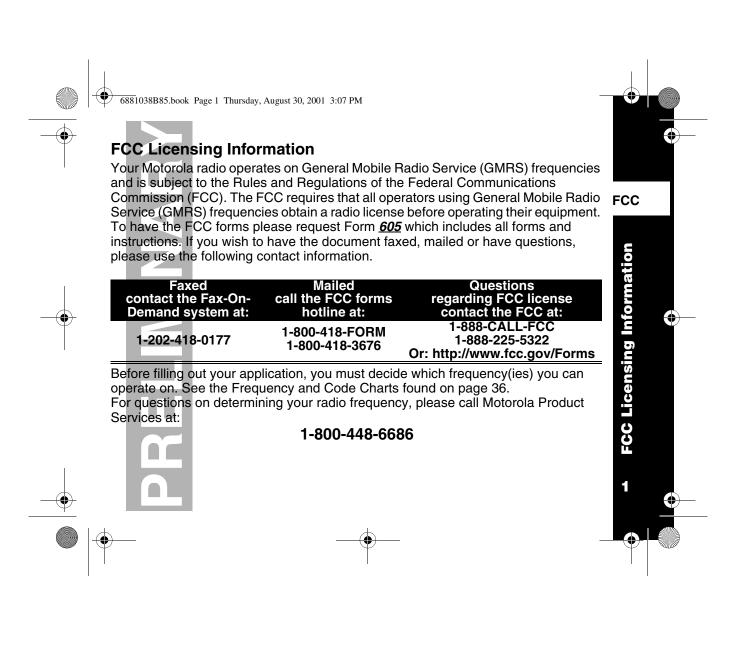












FCC

**FCC Licensing Information** 

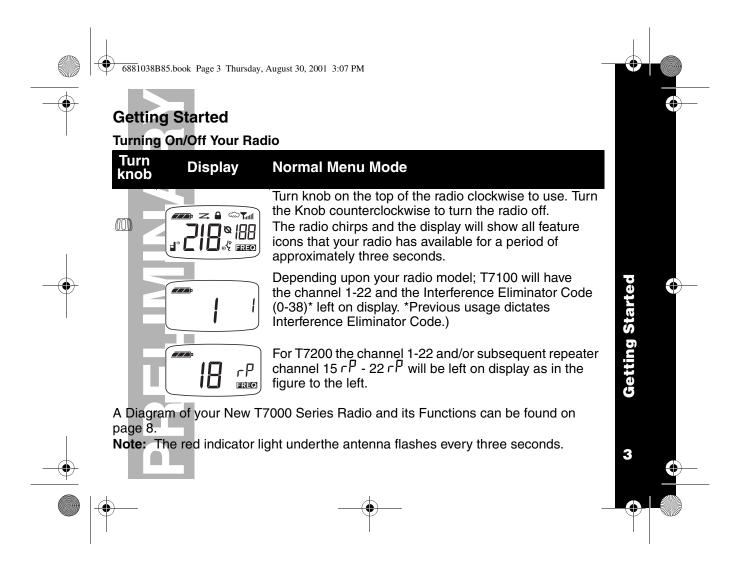
Changes or modifications not expressly approved by Motorola may void the user's authority granted by the FCC to operate this radio and should not be made. To comply with FCC requirements, transmitter adjustments should be made only by or under the supervision of a person certified as technically qualified to perform transmitter maintenance and repairs in the private land mobile and fixed services as certified by an organization representative of the user of those services.

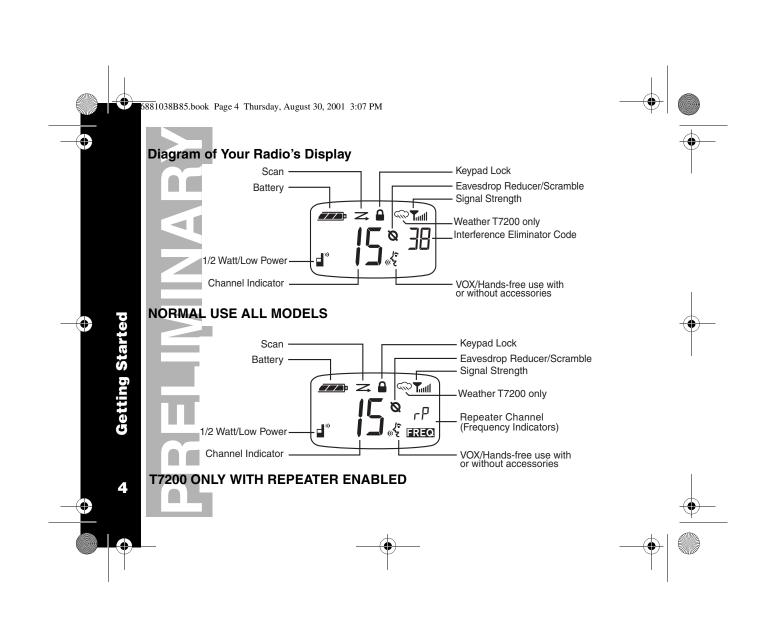
Replacement of any transmitter component (crystal, semiconductor, etc.) not authorized by the FCC equipment authorization for this radio could violate FCC rules.

Note: Use of this radio outside the country where it was intended to be distributed is subject to government regulations and may be prohibited.

Note: Use is s









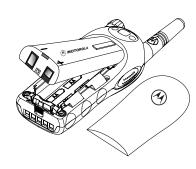
 Place the battery (NTN8971) so that the charge contacts are facing out toward the battery door. The battery fits tightly into place.

Slide and snap the cover back into place

#### AA Alkaline Batteries Installation

Your radio also uses 4 AA alkaline batteries; these cells provide 20 hours\* of radio use.

- Push the ribbed latch on the bottom of the radio away from the battery door.
- Slide and lift the battery door off.
- Place AA batteries so that the + marking match the markings in the compartment.
- Slide and snap the battery cover into place.
   Note: Based upon 5/5/90 duty cycle.



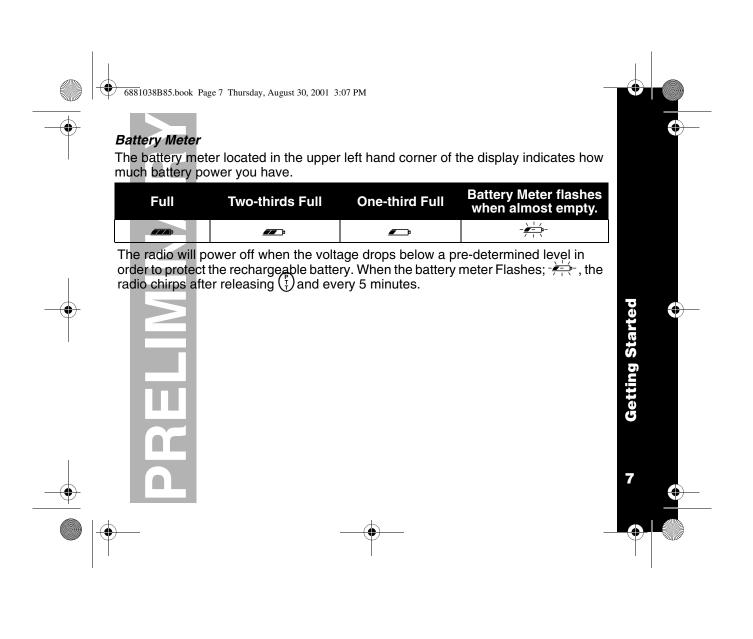












#### The NiMH battery with Plug-in Charger(53898)

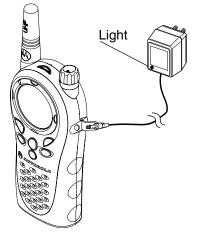
- Make sure NiMH battery is left inside the radio.
- Make sure the radio is Off.
- Plug the charger into an electric outlet.
- Lift Accessory cover and plug the Charger firmly into the small jack socket. Please see figure.

**Note:** The light on the charger will glow red continuously while charging.

Charge the battery (NTN8971) overnight (16 hours) before using it for the first time. It will only need up to ten (10) hours of charging thereafter.

For optimum battery life, the battery must not be left charging for prolonged periods after reaching full charge.

If radio is On while charging, additional time is required to charge the battery. **Caution:** Do not transmit while radio is charging. Tranmitting while radio is charging can cause the radio transmitter or the charger to operate improperly.



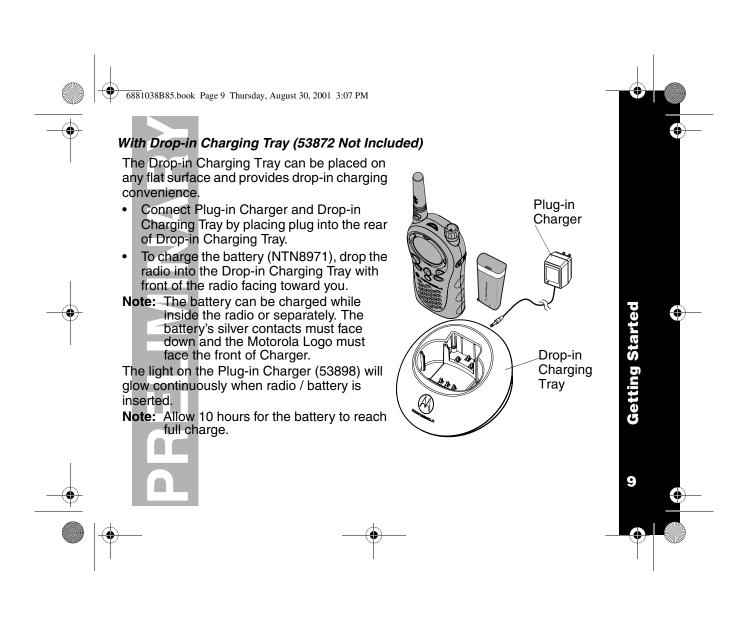












## Before Using Your Radio

To talk with someone on your two-way radios, the following features need to be set exactly alike:

- 1. <u>Channel</u> (The current Channel.)
- 2. Frequency (The radio frequency wave your radio uses to transmit.)
- 3. <u>Interference Eliminator Code</u> (These codes help minimize interference by providing you with a choice of code combinations.) Please refer to the page 36.
- 4. <u>Eavesdrop Reducer</u>/\* (The T7200 is the only model that has this feature.)These scramble codes make your transmissions sound garbled to anyone listening who is not set to that Eavesdrop Reducer. For more information, please see page 26.

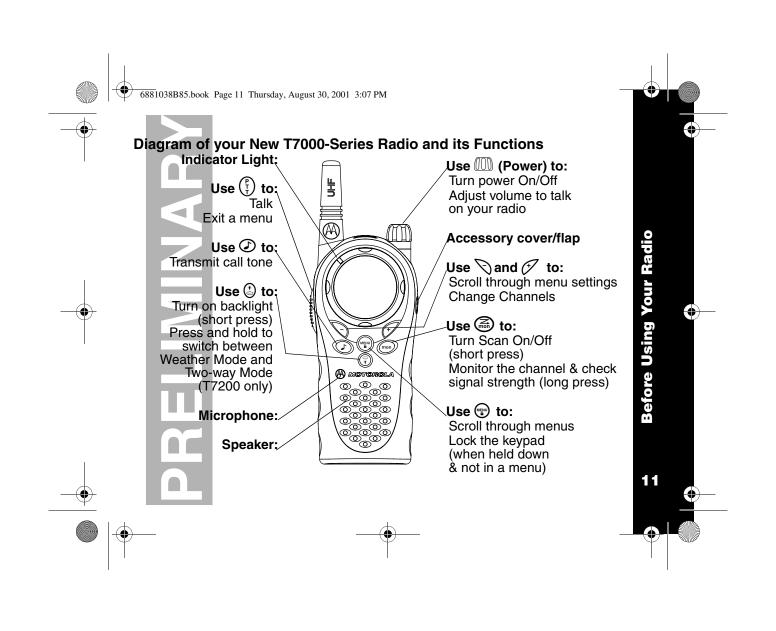
#### Note: Radio must be turned On.

Access by pushing down the button until the chosen icon appears. Now, you may use your radio's and or to select/set features.

Press	Display	Then Press
(HENU)	the icon representing the feature you want	or Ø to select the feature, then press or wait ten seconds to save the setting or press and hold ⊕. A Table to help you understand Menu Functions begins on page 22.

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## **Operating Your T7000 Series Radio**

Note: The microphone is located on the front of your radio, please refer to the diagram on page 11.



- Press and hold (<sup>P</sup>

  †).
- Talk two-to-three inches away from the microphone.
   When you're finished talking, release (†).

While transmitting, the red indicator light located just underneath the antenna on the left front of the radio, glows.

#### **Talking Range**



**Optimal Range** Flat, open areas Outdoor



Buildings or trees
• Outdoor Also near residential buildings



**Minimal Range** Dense foliage or mountains
• Outdoor Also inside some buildings • Indoor









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#### **Changing Your Radio's Settings through Button Combinations**

The following table lists the functions you can set by pressing and holding specific key combinations while turning your radio to the On position:

Key(s) Pressed.	Function
	Enable VOX/Hands-free usage without accessories.
	Turns "Roger" Beeps On or Off.
	Turns Audible Button Beeps On or Off.
	Enable/Disable Repeater Channels by holding down $\textcircled{P}$ and $\binom{\mathbb{P}}{\mathbb{T}}$ for three seconds.
P T T	Selecting bandwidth between 12.5 kHz and 25 kHz.

Note: For more specific information regarding Menu/ Button Combinations, please refer to Table of Menu Functions found on page 22.





### **Accessing the Backlight**

Your radio has a backlight that turns on automatically any time you press a button. The backlight turns off automatically five seconds after you last pressed a button.

#### **Checking Monitor/Signal Strength Indicator**

The button allows you to listen to all activity on a channel to tell whether the channel is currently in use. This button can also help you determine when a radio is moving out of range.

• To check for channel activity, press and hold the button for three seconds, then release. You'll hear static if the channel is clear and 📶 will display. To avoid interrupted conversation, wait until the channel is clear or switch to another channel. To stop monitoring, briefly press and release.

The melps you determine when a radio is moving out of range by displaying a receive signal-strength value next to the Tull while you press and hold . This value from (weakest) through 5 (strongest) indicates the relative strength of the incoming signal.



**Note:** Obstacles that block the signal path affect the strength of the incoming signal.

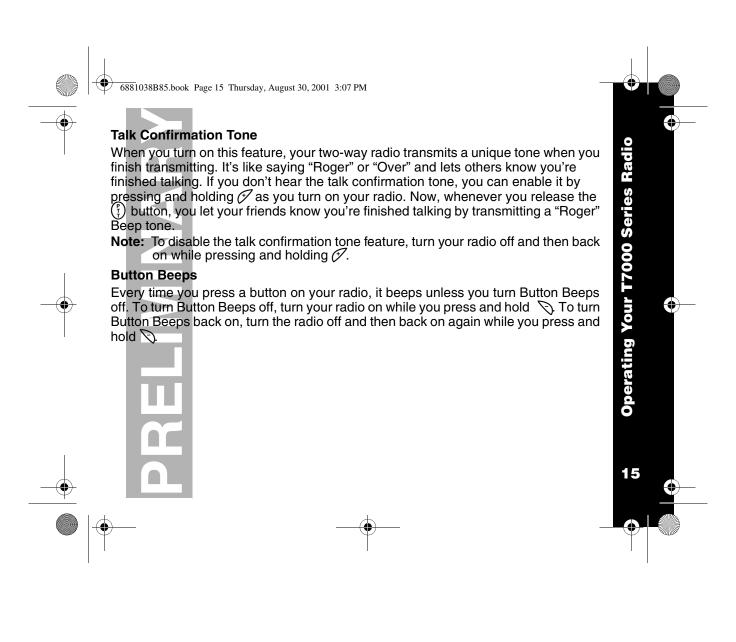


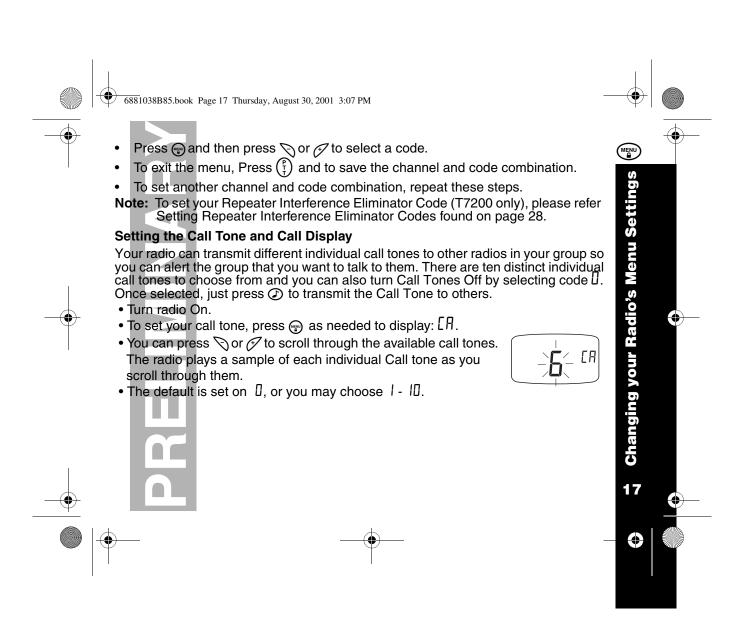












#### Understanding Hands-Free Use/VOX with Accessory

VOX allows "hands-free" transmission when used with compatible VOX accessories.

- Turn radio Off.
- Open Accessory Cover.
- Insert plug of VOX/audio accessory firmly into Accessory Jack.
- Turn radio On and lower volume before placing accessory on head or in ear.
- To transmit, speak into Accessory Microphone and to receive, stop talking. The default VOX sensitivity level must be changed for initial use. The of will flash if sensitivity is set to  $\square$ .
- Press as needed to display & and E.
- Select Sensitivity Level of 1, 2, or  $\exists$  by using  $\bigcirc$  or  $\bigcirc$ : High Sensitivity ∃, for quiet environments Medium Sensitivity 2, for most environments and Low Sensitivity | for noisy environments.

To order accessories, please refer to: www.motorola.com/talkabout.

- VOX operation can be disabled by pressing  $\binom{P}{I}$ .
- A short press (<sup>P</sup>/<sub>1</sub>) of will enable VOX.

Caution: The use of wireless devices and their accessories may be prohibited or restricted in certain areas. Always obey the laws and regulations on the use of these products.











## Understanding Hands-Free Use/VOX without Accessory

The T7000-Series radios are capable of hands-free use without accessories.

- Enable VOX by pressing ( while turning the radio On.
- Press as needed to display & and ..
- Select Sensitivity Level of 1, 2, or 3 by using ♥ or Ø: High Sensitivity ∃, for quiet environments Medium Sensitivity 2, for most environments and Low Sensitivity / for noisy environments.

To turn VOX Off, simply turn the radio Off and then On again. The of will not be visible. Press (‡) to turn off VOX and return to normal operation, & will flash. A short press (‡) of will enable VOX again.

Note: There is a short delay between when you start talking and the radio transmits. The use of wireless devices and their accessories may be prohibited or restricted in certain areas. Always obey the laws and regulations on the use of these products.

### **Setting Preferences for Scanning/Scan List**

By using , you can monitor channels and codes for transmissions and lock in on the one that interests you. More importantly, you can find someone in your group who has accidentally changed channels and is talking during your scan. You don't have to set a new channel or code, the radio just resets itself temporarily to that channel and code and you can start talking.



















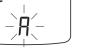
**Setting the Battery \*Type** Note: Battery type needs to be set when non Motorola batteries are used and this menu will not display if you use the Motorola NiMH battery. When a Motorola NiMH battery pack is used, your radio automatically detects and adjusts the battery meter.

- This feature allows the battery meter to recognize and properly display the power usage for single cell batteries.
- First, press 🕤 until d displays. Either 🖟 (Alkaline) or n (NiMH rechargeable) is blinking.
- Press or until your choice of A or n displays.
- Then press M or to exit.

#### **Table of Menu Functions**

Radio Model	Key(s) Pressed.	Menu Function
All	MENU	Hold down for three seconds and all buttons on the keypad will be locked except $\mathfrak{D}$ and $\binom{\mathfrak{P}}{\mathfrak{I}}$ .
	MENU (P)	Reset factory settings, by holding down for five seconds.
7100	♥ or Ø	Change the Channel. Please refer to page 16.















Radio Model	Key(s) Pressed.	Menu Function
7100	⊕ 1X	Change the Interference Eliminator Code. Please refer to page 10.
	⊕ 2X	Change the Call Tone (10 to choose from). Choose I if you want to turn Call Tone Off. Please refer to page 17
	MENU 3X	Microphone Gain selection. Please refer to page 18.
2	₩ 4X	Select $\frac{1}{3}$ /yes or $\frac{1}{10}$ /no for each Channel you want to keep or delete from your scan list. Please refer to page 20.
	⊕ 5X	Choose Battery setting type $\widehat{H}$ for alkaline $\widehat{n}$ for rechargeable battery. Please refer to page 22.  Note: This menu will not appear if the radio detects the NiMH battery (NTN8971).
7200	♥or Ø	Change the Channel. Please refer to page 16. Can scroll through repeater channels after basic powerup sequence. Please refer to Setting Repeater Channels found on page 28.

Changing your Radio's Menu Settings

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# **Table of Menu Functions**

Radio Model	Key(s) Pressed.	Menu Function
7200	1X	Choose the Frequency/repeater. Please refer to Setting Repeater Channels found on page 28.
Z	2X	Choose Eavesdrop Reducer Code (0-3). Please refer to Setting Eavesdrop Reducer found on page 26.
	₩ 3X	Change the Call Tone (0-10). Please refer to Setting the Call Tone and Call Display found on page 17.
2	4X	Sensitivity Level selection. Please refer to Setting Sensitivity Level found on page 18.
	₩ 5X	Select ½ /yes or n /no for each Channel of the Scan List. Please refer to Setting Preferences for Scanning/Scan List found on page 20.
ш С	€ 6X	Choose Battery setting type A for alkaline of for rechargeable battery. Please refer to page 22.  Note: This menu will not appear if the radio detects the NiMH battery (NTN8971).
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# Advanced Features (T7100 and T7200)

## **Selecting Bandwidth**

Your T7100 and/or T7200 GMRS radios are set to 12.5 kHz out of the factory on certain channels:

FRS/GMRS	GMRS Direct	<b>GMRS Repeater</b>	FRS.
1-7	15-22	5 - P - 22 - P	8-14
		If repeater operation is enabled. (T7200 Only)	Permanently locked to 12.5 kHz on a 1/2 watt of power.  You cannot change this setting.

By being set to 12.5 kHz bandwidth, your radio can communicate clearly with the Motorola T6400 GMRS radio and any FRS radio in your group.

You must match your radio's bandwidth to that of the other radios in your group. To match your bandwidth to that of the GMRS radios that you want to talk to at 25 kHz, you must set your radios to 25 kHz:

- Turn your radio Off.
- Turn your radio back on while pressing (F) and (S).
- A triple power-up chirp will sound indicating that your radio is now set to 25 kHz bandwidth on all channels.
- Now you can talk to other GMRS radios in your group.









- Turn your radio Off.
- Turn your radio back on while pressing (‡) and (5).
- A single power up chirp will sound indicating that your radio is now set to 12.5 kHz bandwidth on all channels.
- Now you can talk to other GMRS radios in your group.

# **Advanced Features (T7200 Only)**

#### **Setting Eavesdrop Reducer**

Your radio has the Eavesdrop Reducer feature, a scramble code that makes your transmissions sound garbled to anyone listening without the same code.

It doesn't guarantee secrecy, but it adds an extra layer of privacy.

**Note:** All the radios have to be set to the same scramble code for transmission to be clear.

- Turn radio On.
- To turn the Eavesdrop Reducer feature on, press as needed until a is displayed.
- Then press or to choose the code.
- Select code 1-3. Factory Default is set at [] which means that the feature is Off.



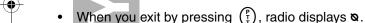








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To turn the Eavesdrop Reducer feature Off, press 🐨 as needed until 🛚 is displayed, then select or until a does not appear.

Then press  $\binom{\mathbb{P}}{\mathbb{I}}$  to exit.

#### **Understanding Repeater Channels**

If you have a GMRS repeater and wish to use it, you must set your T7200 to repeater mode. Those channels are identified on the display by having both rP in the Interference Eliminator Code area and  $\blacksquare$  at the bottom right of the display. They are identified as channels  $15 r^{p}$  -  $22 r^{p}$ .



To enable repeater channels on your T7200:

- Turn your radio Off.
- Turn your radio back On while you press and hold the  $\binom{p}{t}$  and  $\mathfrak{D}$  for 3 seconds.

A very unique power-up chirp will sound indicating that your radio now has repeater capability. Now you can talk to other T7200 radios that are set to your same repeater Channel, Interference Eliminator Code, and Eavesdrop Reducer Code.

To disable repeater channels:

- Turn your Radio Off.
- Turn your radio back on while you press and hold the  $\binom{P}{I}$  and  $\bigcirc$  for 3 seconds.





A single power-up chirp will sound indicating that your radio now has returned to

Channels 15 r.P. - 22 r.P. will no longer appear on your display.

# **Setting Repeater Channels**

normal channel mode.

Once you enable your Repeater Channels on your T7200:

• Press 7 to scroll up to channel 15 rp - 22 rp, located just after channel 22.

# **Setting Repeater Interference Eliminator Codes**

The Interference Eliminator Codes for GMRS Repeater Channels 15 rp - 22 rp and GMRS Direct Channels 15-22 are linked. This means that when you change the code on a GMRS Repeater Channel, the code on the equivalent GMRS Direct Channel will change as well (i.e. If you are on channel 15, code 30 and you change to code 31, then the code will automatically change from 30 to 31 on channel 15 rp). To change your Repeater Interference Eliminator Code:

- Press the  $\mathcal{G}$  to scroll up to any channel between 15  $\Gamma$  22  $\Gamma$ .
- The Interference Eliminator Code assigned to the Repeater channel selected will show for 3 seconds until  $\Gamma^p$  replaces it.
- Press once and the Interference Eliminator Code will flash.
- Press of or until you select an Interference Eliminator Code.
- Press again or press ().

















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#### **Scanning Repeater Channels**

If you have Repeater channels and Scan enabled, the **EREO** icon will display as Scan is scrolling through or landing on channels 15  $\Gamma^{P}$  - 22  $\Gamma^{P}$ .

Note: To enhance your radio's performance, remove the Repeater channels that you do not plan to use before initiating Scan. For example, it would be beneficial to remove channel 16 from your Scan List if you are using channel 16 rP and vice versa. Your radio will talk back on the correct transmit frequency if you follow this simple procedure. If you need additional help please refer to Setting Preferences for Scanning/Scan List found on page 20. You may also refer to Frequency and Code Charts found on page 36 for more details.

#### Weather



You can't change the weather, but you can be prepared for it when you take your Motorola Talkabout T7200 radio with you. That's because it tunes into broadcasts by the United States National Oceanic and Atmospheric Administration (NOAA) Weather Radio and Environment Canada Weatheradio. You can listen to a weather channel or you can even set your radio to alert you to emergency weather broadcasts that interrupt routine broadcasts.

Both NOAA and Environment Canada have transmitters located throughout the United States and Canada, respectively. These transmitters broadcast watches, forecasts, and other information 24 hours a day.

Note: Service may not be available in all areas. Check with your local weather office for frequency and details, or visit www.nws.noaa.gov/nwr, (Canada: www.msc-smc.ec.gc.ca/cd/factsheets/wxradio). The use of the NOAA logo does not provide an endorsement or implied endorsement by NOAA's
National Weather Service nor does the use of the Weatheradio logo provide
an endorsement or implied endorsement by Environment Canada.
Whenever you listen to a weather channel, you cannot use your radio for two-way

communications. However, a weather alert will notify you while the radio is in twoway mode (if you have enabled weather alert) and the radio is on but not transmitting or receiving.

#### **Turning On Weather Channel Reception**

To turn on weather channel reception, press and hold the (3) button. To turn off weather channel reception and return to two-way mode, press and hold the (3) button again.

#### **Setting the Weather Channel**

Your radio receives eight frequencies. See the Weather Frequency Chart on page 36 for a complete list.

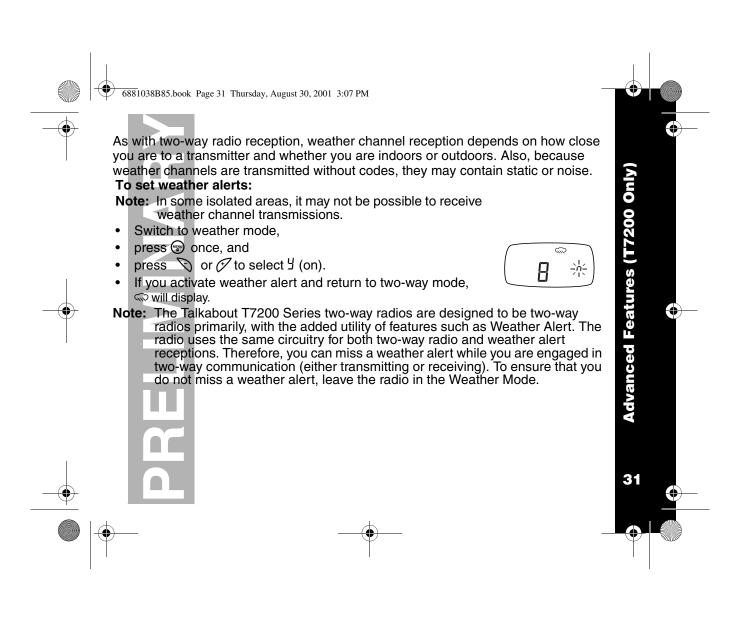
After turning on the weather broadcast, press  $\bigcirc$  or  $\varnothing$  to select the strongest channel.











# **Using Accessories**

Make sure the radio is turned off before plugging audio accessories into the accessory port. Before you place an accessory on your head or in your ear, turn the volume down. After placing the accessory on your head or in your ear, adjust the volume by pressing or .

#### Audio

Audio accessories will be the same as those currently available for all Talkabout Series radios, with all compatible audio accessories fully system tested with the T7100 and T7200 models prior to factory ship acceptance.

#### **Remote Speaker Microphone**

Lapel-mounted speaker/microphone providing hands-on, Push-To-Talk control for low profile radio operation without removing the radio from belt or carry case.

# Ear piece with Push-To-Talk Microphone

Discreet, lightweight ear piece with hand-operated lapel or collar mounted microphone. It allows clear communication without disturbance or interference.

# **Headset with Swivel Boom Microphone**

Comfortable, lightweight headset with T7100 and T7200.

Discreet, lightweight ear piece which fits comfortably inside the ear to allow clear message reception without disturbing others or when noise would interfere.

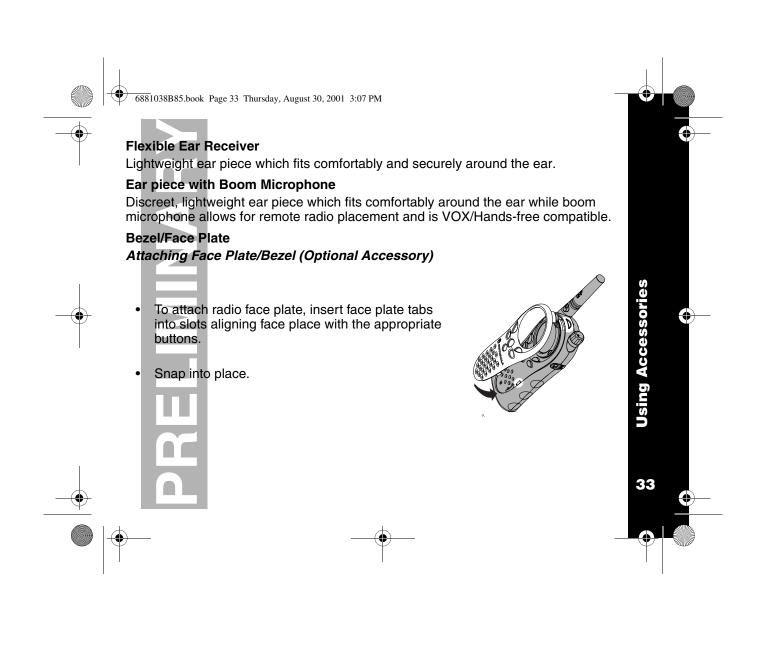


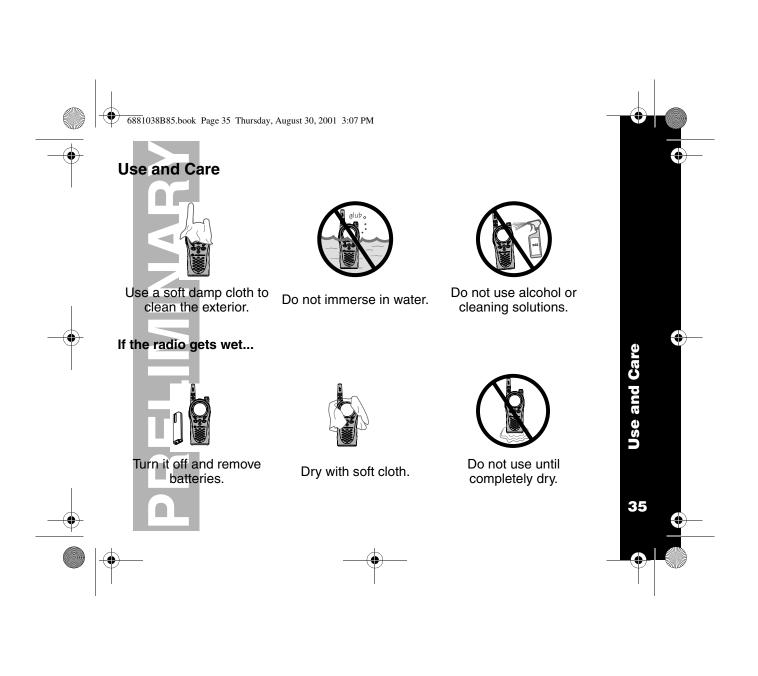








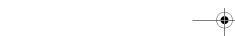




# **Frequency and Code Charts**

The charts on these pages provide frequency and code compatibility information. These charts are useful when using Motorola Talkabout Series two-way radios with other GMRS and FRS radios.

Other Civi		J radios.				
T7100 Channel	Transmit Frequency (Mhz)	Transmit Power (Watts)	Description	T7200 Channel	Code Display	Receive Frequency (Mhz)
1	462.5625	2	FRS 1/GMRS Interstitial 1	1	1-38	462.5625
2	462.5875	2	FRS 2/GMRS Interstitial 2	2	1-38	462.5875
3	462.6125	2	FRS 3/GMRS Interstitial 3	3	1-38	462.6125
4	462.6375	2	FRS 4/GMRS Interstitial 4	4	1-38	462.6375
5	462.6625	2	FRS 5/GMRS Interstitial 5	5	1-38	462.6625
6	462.6875	2	FRS 6/GMRS Interstitial 6	6	1-38	462.6875
7	462.7125	2	FRS 7/GMRS Interstitial7	7	1-38	462.7125
8	467.5625	.5	FRS 8	8	1-38	467.5625
9	467.5875	.5	FRS 9	9	1-38	467.5875
10	467.6125	.5	FRS 10	10	1-38	467.6125
11	467.6375	.5	FRS 11	11	1-38	467.6375
12	467.6625	.5	FRS 12	12	1-38	467.6625
13	467.6875	.5	FRS 13	13	1-38	467.6875
14	468.7125	.5	FRS 14	14	1-38	468.7125
15	462.5500		GMRS Primary 1	15	1-38	462.5500
16	462.5750	2	GMRS Primary 2	16	1-38	462.5750
17	462.6000	2	GMRS Primary 3	17	1-38	462.6000
18	462.6250	2	GMRS Primary 4	18	1-38	462.6250









C	T7100 Channel	Transmit Frequency (Mhz)	Transmit Power (Watts)	Description	T7200 Channel	Code Display	Receive Frequency (Mhz)
_	19	462.6500	2	GMRS Primary 5	19	1-38	462.6500
	20	462.6750	2	GMRS Primary 6	20	1-38	462.6750
	21	462.7000	2	GMRS Primary 7	21	1-38	462.7000
	22	462.7250	2	GMRS Primary 8	22	1-38	462.7250
		467.5500	2	GMRS Repeater 1	15	RP, 1-38	462.5500
		467.5750	2	GMRS Repeater 2	16	RP, 1-38	462.5750
		467.6000	2	GMRS Repeater 3	17	RP, 1-38	462.6000
		467.6250	2	GMRS Repeater 4	18	RP, 1-38	462.6250
		467.6500	2	GMRS Repeater 5	19	RP, 1-38	462.6500
		467.6750	2	GMRS Repeater 6	20	RP, 1-38	462.6750
		467.7000	2	GMRS Repeater 7	21	RP, 1-38	462.7000
		467.7250	2	GMRS Repeater 8	22	RP, 1-38	462.7250

Weat	her Frequency	Chart (T720	00 Only)
WX1	162.550	WX5	162.450
WX2	162.400	WX6	162.500
WX3	162.475	WX7	162.525
WX4	162.425	WX8	163.275
	WX1 WX2 WX3	WX1 162.550 WX2 162.400 WX3 162.475	WX2 162.400 WX6 WX3 162.475 WX7





Carrier squelch (0) disables interference eliminator codes. This allows you to monitor all activity on the channel you are using. Interference eliminator codes help minimize interference by providing you with a choice of code combinations.

	Interference Eliminator Codes						
Code	Hz Freq	Code	Hz Freq	Code	Hz Freq		
1	67.0	14	107.2	27	167.9		
2	71.9	15	110.9	28	173.8		
3	74.4	16	114.8	29	179.9		
4	77.0	17	118.8	30	186.2		
5	79.7	18	123.0	31	192.8		
6	82.5	19	127.3	32	203.5		
7	85.4	20	131.8	33	210.7		
8	88.5	21	136.5	34	218.1		
9	91.5	22	141.3	35	225.7		
10	94.8	23	146.2	36	233.6		
11	97.4	24	151.4	37	241.8		
12	100.0	25	156.7	38	250.3		
13	103.5	26	162.2				









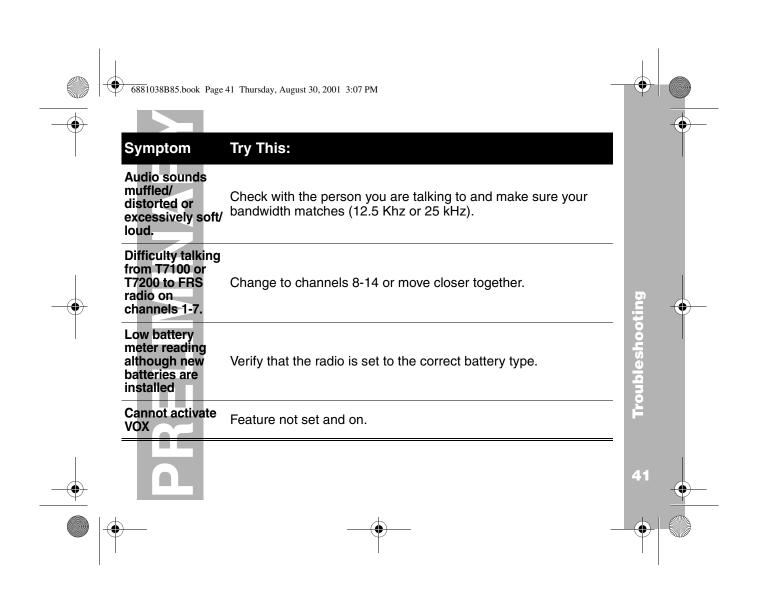
Frequency and Code



# **Troubleshooting**

Troubleshoot	iiig	
Symptom	Try This:	
No Power	Reposition or replace alkaline batteries. Recharge or replace NiMH battery.	
Message not transmitted	Make sure (F) is completely pressed as you transmit. Reposition, replace, or recharge batteries.	
Hearing other noises or conversation on a channel	Confirm interference eliminator code is set. Shared channel or interference eliminator code may be in use, try another.	oting
Message scrambled	(T7200) Eavesdrop Reducer code is on, or setting does not match other radios' settings; all radios must use the same Eavesdrop Reducer code.	Troubleshooting
Limited talk range	Steel and/or concrete structures, heavy foliage, use in buildings or vehicles decrease range. Check for clear line of sight to improve transmission.  Wearing radio close to body such as in a pocket or on a belt decreases range. Change location of radio.	39 Hon
	<b>A</b>	4

•		Symptom	Try This:	<del></del>
ı		Message not received	Confirm radios have the same channel and interference eliminator code settings.  Make sure () is <b>NOT</b> being pressed while trying to listen.  Reposition, replace, or recharge batteries.  Obstructions and operating indoors, or in vehicles, may interfere change location.	
•	oting	Heavy static or interference	Radios are too close, they must be at least five feet apart. Radios are too far apart or obstacles interfering with transmission. Talk range is up to two miles depending on terrain and conditions.	•
	lesho	Keypad locked	Make sure menu is unlocked. Unlock by pressing  for three seconds.	l
	Troub	Low batteries	Recharge or replace NiMH battery. Replace AA batteries. Extreme operating temperatures affect battery life.	
•	40	ما		•
		L		



# **Motorola Limited Warranty**

Motorola Personal Communications Products and Accessories Purchased in the United States and Canada

## I. What This Warranty Covers

Defects in materials and workmanship in the following new "Products" manufactured, sold or certified by Motorola, with which this limited warranty is included in/on the package: (a) wireless cellular telephones, pagers and two-way radios that operate via "Personal Radio Service" (such as Family Radio Service and General Mobile Radio Service), together with software imbedded in any of these products, and (b) subject to the following exceptions, accessories or software sold for use with these products.

- <u>Battery Exception</u>. This limited warranty extends only to batteries in which the fully-charged capacity falls below 80% of rated capacity and batteries that leak;
- Software Exceptions. This limited warranty extends only to physical defects in the media (such as CD-ROM) that tangibly embodies each copy of any software sold and/or certified by Motorola for use with Products. Software that is not tangibly embodied in media and that is purchased separately from Products (such as software that is downloaded from the internet) comes "as is" and without warranty.

# II. What the Period of Coverage Is

Subject to the following exceptions, one year from the date the Products are purchased by the first end-user:





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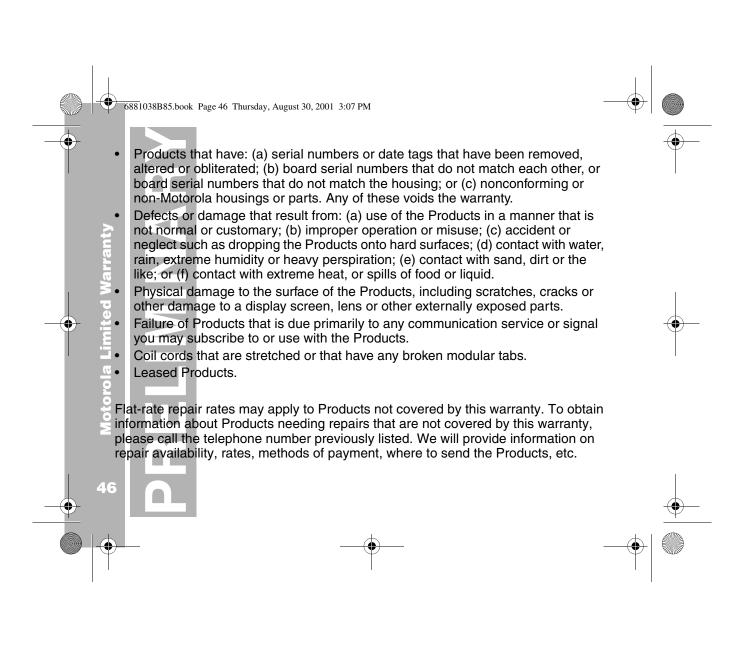
For Products we ask you ship to us, we will ship repaired or replacement Products at our expense for the freight and insurance, but at your expense for any duties. If additional information is needed, please contact us at the telephone number listed above.

# VI. What This Warranty Does Not Cover

- Products that are operated in combination with ancillary or peripheral
  equipment or software not furnished or otherwise certified by Motorola for
  use with the Products ("ancillary equipment"), or any damage to the
  Products or ancillary equipment as a result of such use. Among other
  things, "ancillary equipment" includes batteries, chargers, adaptors, and
  power supplies not manufactured or supplied by Motorola. Any of these
  voids the warranty.
- Someone other than Motorola (or its authorized service centers) tests, adjusts, installs, maintains, alters, modifies or services the Products in any way. Any of these voids the warranty.
- Rechargeable batteries that: (a) are charged by other than the Motorolaapproved battery charger specified for charging such batteries; (b) have any broken seals or show evidence of tampering; (c) are used in equipment other than the Product for which they are specified; or (d) are charged and stored at temperatures greater than 60 degrees centigrade. Any of these voids the warranty.









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#### VII. Some Other Limitations

This is Motorola's complete warranty for the Products, and states your exclusive remedies. This warranty is given in lieu of all other express warranties. Implied warranties, including without limitation, the implied warranties of merchantability and fitness for a particular purpose, are given only if specifically required by applicable law. Otherwise, they are specifically excluded.

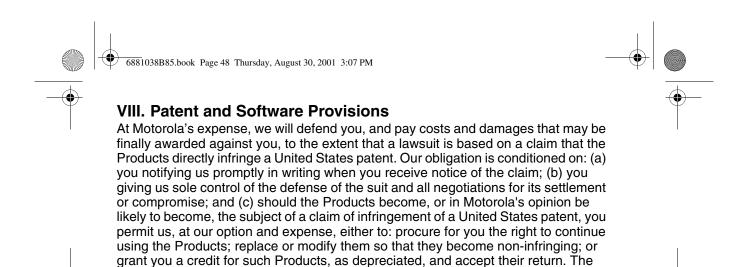
No warranty is made as to coverage, availability, or grade of service provided by the Products, whether through a service provider or otherwise.

No warranty is made that the software will meet your requirements or will work in combination with any hardware or applications software products provided by third parties, that the operation of the software products will be uninterrupted or error free, or that all defects in the software products will be corrected.

In no event shall Motorola be liable, whether in contract or tort (including negligence) for damages in excess of the purchase price of the Product, or for any indirect, incidental, special or consequential damages of any kind, or loss of revenue or profits, loss of business, loss of information or data, or other financial loss arising out of or in connection with the ability or inability to use the Products, to the full extent these damages may be disclaimed by law.





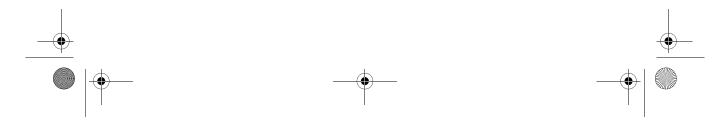


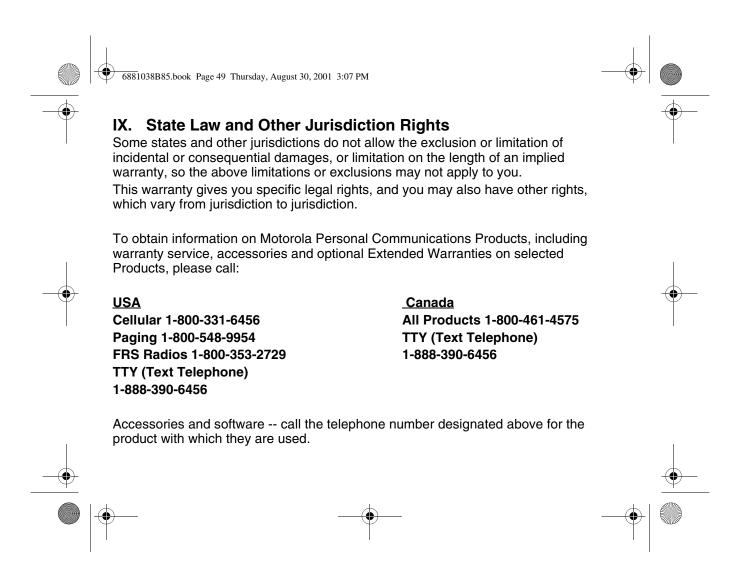
Motorola will have no liability to you with respect to any claim of patent infringement that is based upon the combination of the Products or parts furnished under this limited warranty with ancillary equipment, as defined in VI., above.

depreciation will be an equal amount per year over the lifetime of the Products, as

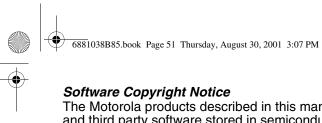
established by Motorola.

# This is Motorola's entire liability with respect to infringement of patents by the Products.







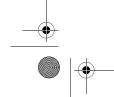


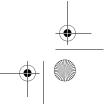
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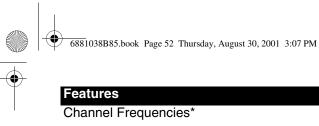
#### Patent Notice

This product is covered by one or more of the following United States patents.

5896277 5894292 5864752 5699006 5742484 D408396 D399821 D387758 D389158 5894592 5893027 5789098 5734975 5861850 D395882 D383745 D389827 D389139 5929825 5926514 5953640 6071640 D413022 D416252 D416893 D433001







Features	T7100 AA	T7200 AA/NiMH
Channel Frequencies*	14 FRS	14 FRS
	8 GMRS	8 GMRS
	-	8 GMRS Repeater
Interference Eliminator Codes	38	38
NOAA weather receiver with Weather Alert	No	Yes
Scan	Yes	Yes
Scan List Editing	Yes	Yes
Nuisance Delete/Manual Advance	Yes	Yes
Eavesdrop Reducer	No	Yes
Call Tones	10	10
Keypad Lock	Yes	Yes
Talk Confirmation Tone	Yes	Yes
Button Beeps	Yes	Yes
Signal Strength Indicator	Yes	Yes
Channel Busy Indicator	Yes	Yes
IP-54 Weather Resistant	No	Yes













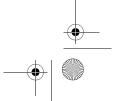




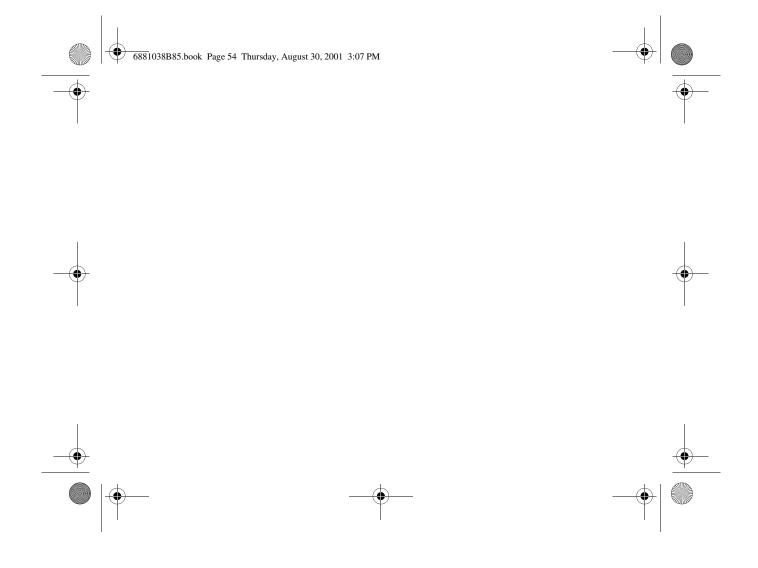


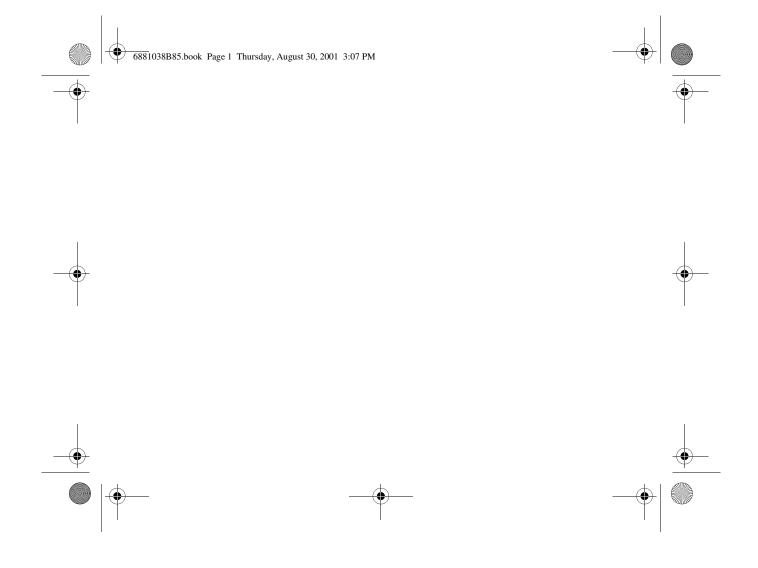
Features	T7100 AA	T7200 AA/NiMH
VOX with accessories 3 user selectable levels	Yes	Yes
VOX without accessories 3 user selectable levels	Yes	Yes
Backlit LCD Display	Yes	Yes
Battery Gauge	Yes	Yes
Low Battery Alert	Yes	Yes
Plug-in charging capable	Yes- Slow	Yes - Slow
Drop-in charging capable	Yes- Rapid	Yes - Rapid
Alkaline compatible	Yes- 4 AA	Yes - 4 AA
12.5/25 kHz channel spacing*	Auto	Auto

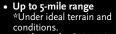












- 22 Channels (8 GMRS + 14 FRS), each
  with 38 Interference Eliminator codes
  Motorola GMRS/FRS two-way radio to
  feature repeater channels. GMRS

   Talk Hands-Free ( channels feature increased power for longer range; 14 FRS channels ensure backward compatibility with FRS two-way radios. 38 interference eliminator codes per channel help minimize interference from other groups.
- Motorola Quality Shock/drop/temperature tested to meet Motorola's High standards.

Accessories for T7000 series - Convenient headphones, some with hands-free talk capabilities, mesh and waterproof carry cases, and rechargeable battery packs available from your retailer or <a href="www.motorola.com">www.motorola.com</a>

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Motorola® Talkabout® T7000



**Proof of Purchase** 

#### X-Pand<sup>TM</sup>

Voice compression technology for better sound at longer

- Helps maximize talk range
   Talk Hands-Free (VOX/iVOX) Advanced voice activation lets you talk hands-free.
- **Talk Confirmation Tone**
- Signals you're done talking Digital Audio Processing Provides crisper audio quality

 Signal Strength Indicator Visual indicator lets you know when

other radios are heading out of range while you're communicating

Batteries (not included)
Requires only 4 AA alkaline batteries or 1 NiMH rechargeable battery

Eavesdrop Reducer (T7200)

- Helps enhance privacy.

  Repeater Channels (T7200)

  Weather Channels (T7200)

- 1-Year Limited Warranty For details, call 1-800-353-2729

Specification Chart Transmit Power

Receiver Sensitivity **Audio Output** Receiver Technology 2 W GMRS; .5 W FRS (typical) 0.18uV 500 mW Digital Direct Conversion - DZIF

Note: For T6220, weather radio service may not be available in all areas. Check with your local weather office for frequency and details or visit www.nws.noaa.gov/nwr in the US or www.msc-smc.ec.gc.ca/cd/factsheets/wxradio in Canada. The use of the NOAA logo does not provide an endorsement or implied endorsement by NOAA's National Weather Service nor does the use of the Weatheradio logo provide an endorsement or implied endorsement by Environment Čanada.

**FCC GMRS** License required.

#### WARNING CHOKING HAZARD SMALL PARTS

Not for children under 3 years. This product is not intended to be used as a toy or plaything.